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57. (Amended) The method of claim 56, wherein the nucleic acid backbone includes the phosphate backbone modification on the 5' inter-nucleotide linkages.

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58. (Amended) The method of claim 56, wherein the nucleic acid backbone includes the phosphate backbone modification on the 3' inter-nucleotide linkages.

66. (Amended) A method for enhancing recovery of bone marrow in a subject undergoing or having undergone cancer therapy, comprising:  
administering to a subject undergoing or having undergone cancer therapy which damages the bone marrow an effective amount for enhancing the recovery of bone marrow of an immunostimulatory nucleic acid, comprising :



wherein C is unmethylated, wherein  $X_1X_2$  and  $X_3X_4$  are nucleotides.

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71. (Amended) In a method for stimulating an immune response in a subject having a cancer, the method of the type involving antigen dependent cellular cytotoxicity (ADCC), the improvement comprising:

administering to the subject an immunostimulatory nucleic acid, comprising:



wherein C is unmethylated, wherein  $X_1X_2$  and  $X_3X_4$  are nucleotides.

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72. (Amended) The method of claim 71, wherein at least one nucleotide has a phosphate backbone modification.

Please add the following new claims:

36. (New) A method for treating or preventing cancer, comprising:

administering to a subject having a cancer an effective amount for treating or preventing cancer of an immunostimulatory nucleic acid, comprising:



wherein C is unmethylated, wherein  $X_1X_2$  and  $X_3X_4$  are nucleotides, and wherein the sequence is not palindromic.

<sup>37</sup>  
~~37~~. (New) The method of claim <sup>36</sup>~~36~~, further comprising administering a chemotherapeutic agent.

<sup>38</sup>  
~~38~~. (New) The method of claim <sup>36</sup>~~36~~, further comprising administering a cancer immunotherapeutic agent.

<sup>39</sup>  
~~39~~. (New) The method of claim <sup>36</sup>~~36~~, wherein the cancer is brain cancer.

<sup>40</sup>  
~~40~~. (New) The method of claim <sup>36</sup>~~36~~, wherein the cancer is lung cancer.

<sup>41</sup>  
~~41~~. (New) The method of claim <sup>36</sup>~~36~~, wherein the cancer is ovarian cancer.

<sup>42</sup>  
~~42~~. (New) The method of claim <sup>36</sup>~~36~~, wherein the cancer is breast cancer.

<sup>43</sup>  
~~43~~. (New) The method of claim <sup>36</sup>~~36~~, wherein the cancer is prostate cancer.

<sup>44</sup>  
~~44~~. (New) The method of claim <sup>36</sup>~~36~~, wherein the cancer is colon cancer.

<sup>45</sup>  
~~45~~. (New) The method of claim <sup>36</sup>~~36~~, wherein the cancer is leukemia.

<sup>46</sup>  
~~46~~. (New) The method of claim <sup>36</sup>~~36~~, wherein the cancer is carcinoma.

<sup>47</sup>  
~~87~~. (New) The method of claim <sup>36</sup>~~76~~, wherein the cancer is sarcoma.

<sup>48</sup>  
~~88~~. (New) The method of claim <sup>36</sup>~~76~~, wherein at least one nucleotide has a phosphate backbone modification.

<sup>50</sup>  
~~89~~. (New) The method of claim <sup>36</sup>~~76~~, wherein the oligonucleotide has 8 to 100 nucleotides.

<sup>49</sup>  
~~90~~. (New) The method of claim <sup>48</sup>~~88~~, wherein the phosphate backbone modification is a phosphorothioate or phosphorodithioate modification.

<sup>50</sup>  
~~91~~. (New) The method of claim <sup>49</sup>~~90~~, wherein the nucleic acid backbone includes the phosphate backbone modification on the 5' inter-nucleotide linkages.

<sup>51</sup>  
~~92~~. (New) The method of claim <sup>49</sup>~~90~~, wherein the nucleic acid backbone includes the phosphate backbone modification on the 3' inter-nucleotide linkages.

<sup>53</sup>  
~~93~~. (New) The method of claim <sup>36</sup>~~76~~, wherein  $X_1X_2$  are nucleotides selected from the group consisting of: GpT, GpG, GpA, ApA, ApT, ApG, CpT, CpA, CpG, TpA, TpT, and TpG; and  $X_3X_4$  are nucleotides selected from the group consisting of: TpT, CpT, ApT, TpG, ApG, CpG, TpC, ApC, CpC, TpA, ApA, and CpA.

<sup>54</sup>  
~~94~~. (New) The method of claim <sup>36</sup>~~76~~, wherein  $X_1X_2$  are GpA and  $X_3X_4$  are TpT.

<sup>55</sup>  
~~95~~. (New) The method of claim <sup>36</sup>~~76~~, wherein  $X_1X_2$  are both purines and  $X_3X_4$  are both pyrimidines.

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